

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	59	(media near4 gateway near4 translation)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/05/07 10:50
S2	12	(media near4 gateway near4 translation near5 address\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/05/07 10:51
S4	1	("20050076108").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/07 10:53
S3	2	(media near4 gateway near4 translation near5 address\$3 same session)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/05/07 10:53
S5	3	(media near4 gateway near4 nat same session)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/05/07 10:56
S7	1	(media near4 gateway same (address\$3 near4 translation) same per\$\$session)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/05/07 10:57
S6	103	(media near4 gateway same (address\$3 near4 translation) same session)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/05/07 10:57
S9	2	(media near4 gateway same (address\$3 near4 translation)) and per\$\$session	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/05/07 10:58
S8	1	(media near4 gateway same (address\$3 near4 translation) same per near4 session)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/05/07 10:58
S10	4	(media near4 gateway same (address\$3 near4 translation)) and (per near3 session)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/05/07 10:59
S12	2	(media near4 gateway same (address\$3 near4 translation)) and (establish\$6 near3 session) and (dynamic\$6 near5 source near5 address\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/05/07 11:01

## EAST Search History

S11	59	(media near4 gateway same (address\$3 near4 translation)) and (establish\$6 near3 session)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/05/07 11:01
S13	14	(media near4 gateway same (address\$3 near4 translation)) and (establish\$6 near3 session) and (assign\$3 near4 address\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/05/07 11:12
S14	6	(media near4 gateway) and ((nat or (address\$3 near4 translation)) near4 learn\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/05/07 11:14
S15	6	(media near4 gateway) and ((nat or (network near4 translation)) near4 learn\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/05/07 11:21
S17	2	((("20030227903") or ("6674758")). PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/07 11:35
S16	6	(media near4 gateway) and ((nat or (network near4 translation)) near4 learn\$3) and session	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/05/07 13:41
S22	2	(media near4 gateway) same integrat\$3 same ((nat or (network near4 translation)) same firewall)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/05/07 13:42
S21	2	S19 and learn\$3	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/05/07 13:42
S20	1	(media near4 gateway) same integrat\$3 same ((nat or (network near4 translation)) same learn\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/05/07 13:42
S19	39	(media near4 gateway) same integrat\$3 same ((nat or (network near4 translation)))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/05/07 13:42
S23	1	(media near4 gateway) same integrat\$3 same ((nat or (network near4 translation)) same filter\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/05/07 13:43
S26	8	(media near4 gateway) same ((nat or (network near4 translation))) and (soft near4 switch\$3) and learn\$3	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/05/07 13:44

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S25	24	(media near4 gateway) same ((nat or (network near4 translation))) and (soft near4 switch\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/05/07 13:44
S24	2	(media near4 gateway) same integrat\$3 same ((nat or (network near4 translation))) and (soft near4 switch\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/05/07 13:44
S18	1	("20030225878").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/07 15:13
S27	1	("6674758").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/08 10:20
S29	1	("20050018651").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/08 10:22
S28	1	("20050117605").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/08 10:22
S31	0	("((nat)or(address\$3near4translatio n))near5learn\$3").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/08 10:50
S34	1	S32 same broadcast\$3	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/05/08 11:13
S33	7	S32 same gateway	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/05/08 11:13
S37	5	S32 and (gateway) and broad\$cast\$3	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/05/08 11:14
S36	27	S32 and (gateway)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/05/08 11:14
S35	6	S32 and (media near4 gateway)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/05/08 11:14
S30	1	("20050076108").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/08 11:39

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S39	1	("20030227905").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/08 15:18
S38	1	("20040128554").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/08 15:18
S40	2	((nat) or (address\$3 near4 translation)) near5 learn\$3) and dtmf	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/05/08 15:20
S32	49	((nat) or (address\$3 near4 translation)) near5 learn\$3	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/05/08 16:08
S42	105	((nat) or (address\$3 near4 translation)) near5 gateway) and codec	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/05/08 16:09
S41	2	((nat) or (address\$3 near4 translation)) near5 learn\$3) and codec	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/05/08 16:09
S44	7	((nat) or (address\$3 near4 translation)) near5 gateway near5 media) and codec and voip	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/05/08 16:10
S46	1	((nat) or (address\$3 near4 translation)) near5 gateway) and codec and voip and aal1	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/05/08 16:11
S45	1	((nat) or (address\$3 near4 translation)) near5 gateway) and codec and voip and aal1 and aal2	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/05/08 16:11
S43	60	((nat) or (address\$3 near4 translation)) near5 gateway) and codec and voip	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/05/08 16:11
S48	17	((nat) or (address\$3 near4 translation)) near5 gateway) and codec and voip and "sar"	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/05/08 16:12
S47	1	((nat) or (address\$3 near4 translation)) near5 gateway) and codec and voip and aal2	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/05/08 16:12

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S52	0	((nat) or (address\$3 near4 translation)) near5 gateway) and (insert\$3 near5 codec) and voip and "sar" and atm	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/05/08 16:13
S51	1	((nat) or (address\$3 near4 translation)) near5 gateway) and codec and voip and "sar" and atm and learn\$3	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/05/08 16:13
S50	1	((nat) or (address\$3 near4 translation)) near5 gateway) and codec and voip and ("sar" near4 chip)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/05/08 16:13
S49	17	((nat) or (address\$3 near4 translation)) near5 gateway) and codec and voip and "sar" and atm	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/05/08 18:26
S54	24	(quasi\$associat\$3 near4 signal\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/05/08 18:27
S53	3493	(quasi near4 signal\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/05/08 18:27
S56	17	(network adj address adj translat\$3) and (nat near4 learn\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/09/30 00:22
S55	4	(network adj address adj translat\$3) near5 learn\$3	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/09/30 00:22
S57	14	(network adj address adj translat\$3) and (learn\$3 near4 gateway)	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/30 00:39
S58	2	(network adj address adj translat\$3) and (learn\$3 near4 (udp and ip))	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/30 00:43
S60	1	(learn\$3 near4 (network near4 address\$3)) and (learn\$3 near4 (transport near4 address\$3))	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/30 00:45
S59	5	(learn\$3 near4 (udp and ip))	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/30 00:45
S61	678	(learn\$3 near4 (address near4 port))	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/30 00:46

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S63	40	((network adj address adj translat\$3) near10 ip near10 udp)	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/30 00:51
S62	30	(learn\$3 near4 (address near4 port)) and (network adj address adj4 translat\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/30 00:51
S66	4	((network adj address adj translat\$3) near10 ip near10 udp) and (@ad<"20031001" or @rlad<"20031001") and learn\$3	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/30 00:52
S65	0	((network adj address adj translat\$3) near10 ip near10 udp) and (@ad<"20031001" or @rlad<"20031001") and per\$\$session	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/30 00:52
S64	31	((network adj address adj translat\$3) near10 ip near10 udp) and (@ad<"20031001" or @rlad<"20031001")	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/30 00:52
S67	104	(megaco and nat)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/10/12 10:21
S68	10	(megaco and nat) and learn\$3	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/10/12 10:24
S71	1	("20050076108").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/10/12 10:46
S70	1	("20050080853").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/10/12 10:46
S72	1667	(peer or p2p).ti.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/10/12 11:13
S69	27	(learn\$3 near4 nat)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/10/12 11:13
S74	9	(peer or p2p).ti. and "709"/\$.ccls. and watermark\$3	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/10/12 11:16
S73	489	(peer or p2p).ti. and "709"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/10/12 11:16

## EAST Search History

S75	27	(peer or p2p).ti. and watermark\$3	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/10/12 13:23
L1	2	(learn\$3 near4 nat) and pin\$hole	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/10/12 13:25
L3	5015	(media near4 gateway)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/10/12 13:27
L2	2	(learn\$3 near4 nat near5 filter\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/10/12 13:27
L6	14	(learn\$3 near4 translat\$3 near4 address\$3) and gateway	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/10/12 13:44
L4	6	(media near4 gateway) and (learn\$3 near4 nat)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/10/12 13:44
L5	24	(learn\$3 near4 translat\$3 near4 address\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/10/12 13:46



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- IEEE CNF IEEE Conference Proceeding
- IET CNF IET Conference Proceeding
- IEEE STD IEEE Standard

- ☐ 1. **A design framework of interactive distance learning in distributed systems**  
 Kamolphiwong, T.; Kamolphiwong, S.; Siriyuenyong, C.;  
Computers in Education, 2002. Proceedings. International Conference on  
 3-6 Dec. 2002 Page(s):580 - 584 vol.1  
 Digital Object Identifier 10.1109/CIE.2002.1186011  
[AbstractPlus](#) | Full Text: [PDF\(422 KB\)](#) IEEE CNF  
[Rights and Permissions](#)
- ☐ 2. **Online smoothing of variable-bit-rate streaming video**  
 Sen, S.; Rexford, J.L.; Dey, J.K.; Kurose, J.F.; Towsley, D.F.;  
Multimedia, IEEE Transactions on  
 Volume 2, Issue 1, March 2000 Page(s):37 - 48  
 Digital Object Identifier 10.1109/6046.825793  
[AbstractPlus](#) | [References](#) | Full Text: [PDF\(292 KB\)](#) IEEE JNL  
[Rights and Permissions](#)
- ☐ 3. **On Configuring BGP Route Reflectors**  
 Breitbart, Yuri; Garofalakis, Minos; Gupta, Anupam; Kumar, Amit; Rastogi, Rajeev;  
Communication Systems Software and Middleware, 2007. COMSWARE 2007. 2nd International Conference on  
 7-12 Jan. 2007 Page(s):1 - 12  
 Digital Object Identifier 10.1109/COMSWA.2007.382444  
[AbstractPlus](#) | Full Text: [PDF\(2564 KB\)](#) IEEE CNF  
[Rights and Permissions](#)
- ☐ 4. **Towards A Collaborative Model Of An Automated Adaptive Content Delivery Training Utilizing Fuzzy Logic**  
 Vert, G.; Yakkali, R.;  
Collaborative Technologies and Systems, 2006. CTS 2006. International Symposium on  
 14-17 May 2006 Page(s):165 - 171  
 Digital Object Identifier 10.1109/CTS.2006.68  
[AbstractPlus](#) | Full Text: [PDF\(90 KB\)](#) IEEE CNF  
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- ☐ 5. **IEEE PDI: a gateway for lifelong engineering education**  
 Feisel, L.; Hagler, M.; Wiesner, P.;  
Frontiers in Education Conference, 2001. 31st Annual  
 Volume 1, 10-13 Oct. 2001 Page(s):T3F - T31 vol.1



Digital Object Identifier 10.1109/FIE.2001.963922

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**6. GNI - building integrated OSS infrastructure from the ground up**

Kittel, A.; Gudur, J.; Gundlapudi, S.; Lederman, A.;

[Network Operations and Management Symposium, 2000. NOMS 2000. 2000 IEEE/IFIP](#)  
10-14 April 2000 Page(s):945 - 946

Digital Object Identifier 10.1109/NOMS.2000.830449

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## » Key

IEEE JNL IEEE Journal or Magazine

IET JNL IET Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IET CNF IET Conference Proceeding

IEEE STD IEEE Standard

- ☐ 1. **A Proposed Method for Simplified Microcomputer Programming\***  
Korn, G.A.;  
[Computer](#)  
Volume 8, [Issue 10](#), Oct. 1975 Page(s):43 - 52  
Digital Object Identifier 10.1109/C-M.1975.218779  
[AbstractPlus](#) | Full Text: [PDF](#)(6548 KB) IEEE JNL  
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- ☐ 2. **Translating the mission: when the ground-truthers meet the instrument-makers-how students at all points in the "Pipeline" learn about remote sensing**  
Pierce, A.; Adesanya, B.; Robinson, D.;  
[Geoscience and Remote Sensing, IEEE Transactions on](#)  
Volume 37, [Issue 5](#), Part 1, Sept. 1999 Page(s):2343 - 2345  
Digital Object Identifier 10.1109/36.789631  
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- ☐ 3. **The BCI competition III: validating alternative approaches to actual BCI problems**  
Blankertz, B.; Muller, K.-R.; Krusienski, D.J.; Schalk, G.; Wolpaw, J.R.; Schlogl, A.; Pfurtschel, G.; Millan, J.R.; Schroder, M.; Birbaumer, N.;  
[Neural Systems and Rehabilitation Engineering, IEEE Transactions on \[see also IEEE Trans. Rehabilitation Engineering\]](#)  
Volume 14, [Issue 2](#), June 2006 Page(s):153 - 159  
Digital Object Identifier 10.1109/TNSRE.2006.875642  
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- ☐ 4. **Semantic constraints for membership function optimization**  
de Oliveira, J.V.;  
[Systems, Man and Cybernetics, Part A, IEEE Transactions on](#)  
Volume 29, [Issue 1](#), Jan. 1999 Page(s):128 - 138  
Digital Object Identifier 10.1109/3468.736369  
[AbstractPlus](#) | [References](#) | Full Text: [PDF](#)(396 KB) IEEE JNL  
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- ☐ 5. **Heterogeneous fuzzy logic networks: fundamentals and development studies**  
Pedrycz, W.;  
[Neural Networks, IEEE Transactions on](#)

Volume 15, Issue 6, Nov. 2004 Page(s):1466 - 1481  
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- ☐ **6. Sustainment of legacy automatic test systems: lessons learned on TPS transportability**  
Kennedy, C.;  
[Aerospace and Electronic Systems Magazine, IEEE](#)  
Volume 20, Issue 4, April 2005 Page(s):18 - 22  
Digital Object Identifier 10.1109/MAES.2005.1423385  
[AbstractPlus](#) | Full Text: [PDF](#)(1934 KB) IEEE JNL  
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- ☐ **7. Using PredictiveModeling for Cross-Program Design Space Exploration in Multicore Systems**  
Khan, Salman; Xekalakis, Polychronis; Cavazos, John; Cintra, Marcelo;  
[Parallel Architecture and Compilation Techniques, 2007. PACT 2007. 16th International Conference on](#)  
15-19 Sept. 2007 Page(s):327 - 338  
Digital Object Identifier 10.1109/PACT.2007.4336223  
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- ☐ **8. A New Machine Learning Method based on PCA and SVM**  
Rongyong Zhao; Hao Zhang; Jiangfeng Lu; Cuiling Li; Hui Zhang;  
[Computational Intelligence and Security, 2006 International Conference on](#)  
Volume 1, Nov. 2006 Page(s):187 - 190  
Digital Object Identifier 10.1109/ICCIAS.2006.294119  
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- ☐ **9. Sensing Super-position: Human Sensing Beyond the Visual Spectrum**  
Maluf, D.A.; Tran, P.;  
[Information Reuse and Integration, 2006 IEEE International Conference on](#)  
Sept. 2006 Page(s):595 - 601  
Digital Object Identifier 10.1109/IRI.2006.252481  
[AbstractPlus](#) | Full Text: [PDF](#)(652 KB) IEEE CNF  
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- ☐ **10. Sensing super-position: visual instrument sensor replacement**  
Maluf, D.A.; Schipper, J.F.;  
[Aerospace Conference, 2006 IEEE](#)  
4-11 March 2006 Page(s):10 pp.  
Digital Object Identifier 10.1109/AERO.2006.1656043  
[AbstractPlus](#) | Full Text: [PDF](#)(408 KB) IEEE CNF  
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- ☐ **11. Formal Verification of 802.11i using Strand Space Formalism**  
Furqan, Z.; Muhammad, S.; Guha, R.K.;  
[Networking, International Conference on Systems and International Conference on Mobile Communications and Learning Technologies, 2006. ICN/ICONS/MCL 2006. International Conference on](#)  
23-29 April 2006 Page(s):140 - 140  
Digital Object Identifier 10.1109/ICNICONSMCL.2006.101  
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- ☐ **12. Quotient space based multi-granular computing**  
Ling Zhang; Bo Zhang;

[Granular Computing, 2005 IEEE International Conference on](#)  
Volume 1, 25-27 July 2005 Page(s):98 Vol. 1  
Digital Object Identifier 10.1109/GRC.2005.1547242  
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- ☐ **13. Sustainment of legacy automatic test systems: lessons learned on TPS transportability**  
Kennedy, C.;  
[AUTOTESTCON 2004. Proceedings](#)  
20-23 Sept. 2004 Page(s):217 - 222  
Digital Object Identifier 10.1109/AUTEST.2004.1436835  
[AbstractPlus](#) | Full Text: [PDF\(253 KB\)](#) IEEE CNF  
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- ☐ **14. Attribute grammar encoding based upon a generic neural markup language: facilitating the design of theoretical neural network models**  
Hussain, T.S.;  
[Neural Networks, 2004. Proceedings. 2004 IEEE International Joint Conference on](#)  
Volume 1, 25-29 July 2004 Page(s):  
[AbstractPlus](#) | Full Text: [PDF\(814 KB\)](#) IEEE CNF  
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- ☐ **15. Learning spoken words from multisensory input**  
Chen Yu; Ballard, D.H.;  
[Signal Processing, 2002 6th International Conference on](#)  
Volume 2, 26-30 Aug. 2002 Page(s):998 - 1001 vol.2  
[AbstractPlus](#) | Full Text: [PDF\(407 KB\)](#) IEEE CNF  
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- ☐ **16. The hidden meta-requirements of security and privacy**  
Spafford, G.;  
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If the current **local session** status; QDRQ is about a single **session**: 1. the NF ..... Firewall store the MSN received with the **initial packet** as start value. ...

[tools.ietf.org/wg/nsis/draft-ietf-nsis-nslp-natfw/draft-ietf-nsis-nslp-natfw-06-from-05.wdiff.html](#)

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The lifetime extension of a **session** is calculated as current **local** time plus ..... NSIS forwarders and the responder store the with the **initial packet** ...

[tools.ietf.org/wg/nsis/draft-ietf-nsis-nslp-natfw/draft-ietf-nsis-nslp-natfw-09-from-08.diff.txt](#) -

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**NAT/Firewall NSIS Signaling Layer Protocol (NSLP)**

NSIS forwarders and the responder store the with the **initial packet** received .... A Purpose-built key is a public/private key pair generated **per session**. ...

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opening a UDP socket and forwarding only the payload, without the **initial packet** headers.

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ment number field is not used in the **initial packet**; by convention it is set ..... ically assigned on a **per-session** basis. For example, whenever a host on ...  
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write the **initial packet**'s destination address information, and then the ..... the **source** and destination addresses of an incoming **packet**, the **session**'s ...

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Accordingly, in step 414, **media gateway** 200 learns the NAT-translated **source** addresses of the **media packet**. **Learning** the NAT-translated **source** address for ...

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sends a **media packet** on each established **media** session. .... **Media Gateway** Control Protocol. This is a VoIP signaling protocol, ...

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2) After receiving the **media packet** the IMS Access **Gateway** recognizes the **media** ... The IMS Access **Gateway** changes the **source transport** address to its own ...

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user location lookup but end-to-end **media transport** are not P2P. .... a single **media packet**. When summing, the server should absorb the jitter in **packet** ...

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### 1 [Going wireless, enabling an adaptive and extensible environment](#)

Theo G. Kanter

February 2003 **Mobile Networks and Applications**, Volume 8 Issue 1

**Publisher:** Kluwer Academic Publishers

Full text available: pdf(483.21 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper discusses limitations in existing and projected solutions for delivering applications to mobile users (e.g., in 3G) in an increasingly diverse heterogeneous wireless infrastructure in combination with the on-going deregulation of mobile communication and with an increasing number of more narrowly defined roles of parties participating in the delivery of applications to mobile users. Furthermore, for future service growth, users need to be the center of communication via applications t ...

**Keywords:** agents, context, scalability, service, wireless

### 2 [ACM SIGMM retreat report on future directions in multimedia research](#)



Lawrence A. Rowe, Ramesh Jain

February 2005 **ACM Transactions on Multimedia Computing, Communications, and Applications (TOMCCAP)**, Volume 1 Issue 1

**Publisher:** ACM Press

Full text available: pdf(89.14 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The ACM Multimedia Special Interest Group was created ten years ago. Since that time, researchers have solved a number of important problems related to media processing, multimedia databases, and distributed multimedia applications. A strategic retreat was organized as part of ACM Multimedia 2003 to assess the current state of multimedia research and suggest directions for future research. This report presents the recommendations developed during the retreat. The major observation is that resear ...

**Keywords:** Multimedia authoring, distributed collaboration, multimedia query, multimedia storage and indexing, tele-presence

### 3 [Audio and media streaming: High resolution live streaming with the HYDRA architecture](#)



Roger Zimmermann, Moses Pawar, Dwipal A. Desai, Min Qin, Hong Zhu  
October 2004 **Computers in Entertainment (CIE)**, Volume 2 Issue 4

**Publisher:** ACM Press

Full text available: [pdf\(619.79 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Digital continuous media (CM) are now well established as an integral part of many applications. With highdefinition (HD) displays becoming increasingly common and large network bandwidth available, high-quality video streaming has become feasible, and novel, innovative applications possible. However, the majority of existing systems for HD-quality streaming are based on offline content and use elaborate buffering techniques that introduce long latencies. Therefore, these solutions are ill-eq ...

**Keywords:** high-definition media, human-computer interaction, latency, remote performance, streaming

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### 1 [MobileNAT: a new technique for mobility across heterogeneous address spaces](#)

Milind Buddhikot, Adishesu Hari, Kundan Singh, Scott Miller

June 2005 **Mobile Networks and Applications**, Volume 10 Issue 3

Publisher: Kluwer Academic Publishers

Full text available: pdf(1.60 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We propose a new network layer mobility architecture called MOBILENAT to efficiently support micro and macro-mobility in and across heterogeneous address spaces common in emerging public networks. The key ideas in this architecture are as follows: (1) Use of two IP addresses - an invariant virtual IP address for host identification at the application layer and an actual routable address at the network layer that changes due to mobility. Since physical address has routing significance only within ...

**Keywords:** MOBILENAT, design, experimentation, mobility

### 2 [Roaming and handoff management: MobileNAT: a new technique for mobility across heterogeneous address spaces](#)

Milind Buddhikot, Adishesu Hari, Kundan Singh, Scott Miller

September 2003 **Proceedings of the 1st ACM international workshop on Wireless mobile applications and services on WLAN hotspots WMASH '03**

Publisher: ACM Press

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We propose a new network layer mobility architecture called MobileNAT to efficiently support micro and macro-mobility in and across heterogeneous address spaces common in emerging public networks. The key ideas in this architecture are as follows: (1) Use of two IP addresses -- an invariant virtual IP address for host identification at the application layer and an actual routable address at the network layer that changes due to mobility. Since physical address has routing significance only withi ...

**Keywords:** MobileNAT, mobility

### 3 [An end-middle-end approach to connection establishment](#)

Saikat Guha, Paul Francis

-  August 2007 **ACM SIGCOMM Computer Communication Review , Proceedings of the 2007 conference on Applications, technologies, architectures, and protocols for computer communications SIGCOMM '07**, Volume 37 Issue 4

**Publisher:** ACM Press

Full text available:  pdf(883.87 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The current model for flow establishment in the Internet: DNS Names, IP addresses, and transport ports, is inadequate. Not all of the problem is due to the small IPv4 address space and resulting NAT boxes. Even where global addresses exist, firewalls cannot glean enough information about a flow from packet headers, and so often err, typically by being over-conservative: disallowing flows that might otherwise be allowed. This paper presents a novel architecture, protocol design, and implementa ...

**Keywords:** NUTSS, end-middle-end, off-path, on-path, signaling

4 Q focus: session initiation protocol: SIP: basics and beyond

 Robert Sparks  
March 2007 **Queue**, Volume 5 Issue 2

**Publisher:** ACM Press


Full text available:  pdf(1.04 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

More than just a simple telephony application protocol, SIP is a framework for developing communications systems.

5 New architectures: Steps towards a DoS-resistant internet architecture

 Mark Handley, Adam Greenhalgh  
August 2004 **Proceedings of the ACM SIGCOMM workshop on Future directions in network architecture FDNA '04**

**Publisher:** ACM Press

Full text available:  pdf(120.88 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Defending against DoS attacks is extremely difficult; effective solutions probably require significant changes to the Internet architecture. We present a series of architectural changes aimed at preventing most flooding DoS attacks, and making the remaining attacks easier to defend against. The goal is to stimulate a debate on trade-offs between the flexibility needed for future Internet evolution and the need to be robust to attack.

**Keywords:** denial-of-service, internet, network architecture, security

6 Designing DCCP: congestion control without reliability

 Eddie Kohler, Mark Handley, Sally Floyd  
August 2006 **ACM SIGCOMM Computer Communication Review , Proceedings of the 2006 conference on Applications, technologies, architectures, and protocols for computer communications SIGCOMM '06**, Volume 36 Issue 4

**Publisher:** ACM Press

Full text available:  pdf(240.61 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Fast-growing Internet applications like streaming media and telephony prefer timeliness to reliability, making TCP a poor fit. Unfortunately, UDP, the natural alternative, lacks congestion control. High-bandwidth UDP applications must implement congestion control themselves-a difficult task-or risk rendering congested networks unusable. We set out to ease the safe deployment of these applications by designing a *congestion-controlled*

*unreliable transport protocol*. The outcome, the Datagram ...

**Keywords:** DCCP, Internet telephony, TCP, congestion control, streaming media, transfer, transport protocols, unreliable

7 Half layers: NUTSS: a SIP-based approach to UDP and TCP network connectivity



Saikat Guha, Yutaka Takeda, Paul Francis

August 2004 **Proceedings of the ACM SIGCOMM workshop on Future directions in network architecture FDNA '04**

**Publisher:** ACM Press

Full text available: pdf(128.36 KB)

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The communications establishment capability of the Session Initiation Protocol is being expanded by the IETF to include establishing network layer connectivity for UDP for a range of scenarios, including where hosts are behind NAT boxes, and host are running IPv6. So far, this work has been limited to UDP because of the assumed impossibility of establishing TCP connections through NAT, and because of the difficulty of predicting port assignments on certain common types of NATs. This paper report ...

**Keywords:** IPv6 transition, NAT traversal, NUTSS, STUNT

8 A new UPnP architecture for distributed video voice over IP



Antonio Vilei, Gabriella Convertino, Fabrizio Crudo

December 2006 **Proceedings of the 5th international conference on Mobile and ubiquitous multimedia MUM '06**

**Publisher:** ACM Press

Full text available: pdf(254.31 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper we present a novel approach to video telephony where we are able to exploit the benefits of the Universal Plug and Play (UPnP) protocol: self-configuration, discovery and control of available devices connected to the network. At the time being, UPnP does not deal with Video Voice over IP (VVoIP) applications. Integrating a signaling protocol like the Session Initiation Protocol (SIP) with UPnP allows interaction between the videophone and other UPnP compliant devices, like a TV set ...

**Keywords:** SIP, UPnP, VoIP, middleware, video conference

9 Laboratory experiments for network security instruction



José Carlos Brustoloni

December 2006 **Journal on Educational Resources in Computing (JERIC)**, Volume 6 Issue 4

**Publisher:** ACM Press

Full text available: pdf(131.27 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We describe a sequence of five experiments on network security that cast students successively in the roles of computer user, programmer, and system administrator. Unlike experiments described in several previous papers, these experiments avoid placing students in the role of attacker. Each experiment starts with an in-class demonstration of an attack by the instructor. Students then learn how to use open-source defense tools appropriate for the role they are playing and the attack at hand. T ...

**Keywords:** Certificate, IPsec, SSH, SSL, VPN, certifying authority, course, dictionary attack, eavesdropping, education, experiment, fingerprinting, firewall, man-in-the-middle, password, port scanning, security

10 Whatever happened to the next-generation Internet?



Mark Weiser

September 2001 **Communications of the ACM**, Volume 44 Issue 9

**Publisher:** ACM Press

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11 Q focus: session initiation protocol: Unified communications with SIP



Martin J. Steinmann

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1 [Roaming and handoff management: MobileNAT: a new technique for mobility across heterogeneous address spaces](#)



Milind Buddhikot, Adishesu Hari, Kundan Singh, Scott Miller

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We propose a new network layer mobility architecture called MobileNAT to efficiently support micro and macro-mobility in and across heterogeneous address spaces common in emerging public networks. The key ideas in this architecture are as follows: (1) Use of two IP addresses -- an invariant virtual IP address for host identification at the application layer and an actual routable address at the network layer that changes due to mobility. Since physical address has routing significance only withi ...

**Keywords:** MobileNAT, mobility

2 [T1-C: multimedia over wireless symposium: Middlebox context transfer for multimedia session support in all-IP networks](#)



Michael Georgiades, Tasos Dagiuklas, Rahim Tafazolli

July 2006 **Proceedings of the 2006 international conference on Wireless communications and mobile computing IWCMC '06**

**Publisher:** ACM Press

Full text available: [pdf\(1.41 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper describes a mechanism of forwarding secure state information associated to communication sessions, between middleboxes belonging to different Radio Access Networks (RANs). The transfer of state information among RANs could support service integrity and continuity by maintaining a mobile user's multimedia sessions which may otherwise be dropped and also minimize security vulnerabilities. The paper demonstrates how the context transfer protocol could be employed for this purpose to forw ...

**Keywords:** context transfer mobility, middleboxes, multimedia sessions in systems beyond 3G, security



### 3 A new UPnP architecture for distributed video voice over IP



Antonio Vilei, Gabriella Convertino, Fabrizio Crudo

December 2006 **Proceedings of the 5th international conference on Mobile and ubiquitous multimedia MUM '06**

**Publisher:** ACM Press

Full text available: pdf(254.31 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper we present a novel approach to video telephony where we are able to exploit the benefits of the Universal Plug and Play (UPnP) protocol: self-configuration, discovery and control of available devices connected to the network. At the time being, UPnP does not deal with Video Voice over IP (VVoIP) applications. Integrating a signaling protocol like the Session Initiation Protocol (SIP) with UPnP allows interaction between the videophone and other UPnP compliant devices, like a TV set ...

**Keywords:** SIP, UPnP, VoIP, middleware, video conference

### 4 Half layers: NUTSS: a SIP-based approach to UDP and TCP network connectivity



Saikat Guha, Yutaka Takeda, Paul Francis

August 2004 **Proceedings of the ACM SIGCOMM workshop on Future directions in network architecture FDNA '04**

**Publisher:** ACM Press

Full text available: pdf(128.36 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The communications establishment capability of the Session Initiation Protocol is being expanded by the IETF to include establishing network layer connectivity for UDP for a range of scenarios, including where hosts are behind NAT boxes, and host are running IPv6. So far, this work has been limited to UDP because of the assumed impossibility of establishing TCP connections through NAT, and because of the difficulty of predicting port assignments on certain common types of NATs. This paper report ...

**Keywords:** IPv6 transition, NAT traversal, NUTSS, STUNT

### 5 LIHP: A Low Latency Layer-3 Handoff Scheme for 802.11 Wireless Networks

John C. Lin, Sampath Rangarajan Rangarajan

June 2006 **Proceedings of the 2006 International Symposium on on World of Wireless, Mobile and Multimedia Networks WOWMOM '06**

**Publisher:** IEEE Computer Society

Full text available: pdf(449.46 KB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

This paper presents the design and implementation of a low latency layer-3 handoff scheme for 802.11 wireless mobiles roaming between Access Points that are connected to different IP subnets. Called LIHP (Link-layer Initiated Handoff Protocol), the scheme uses link-layer frames (e.g., ARP and 802.11 management frames) as triggers to send route updates to the mobiles and to an Access Gateway, which serves as the gateway to the Internet for the mobiles. This approach allows for IP packet routing t ...

### 6 Mobility, roaming, and handoff: Fast authentication methods for handovers between IEEE 802.11 wireless LANs



M. S. Bargh, R. J. Hulsebosch, E. H. Eertink, A. Prasad, H. Wang, P. Schoo

October 2004 **Proceedings of the 2nd ACM international workshop on Wireless mobile applications and services on WLAN hotspots WMASH '04**

**Publisher:** ACM Press

Full text available: pdf(257.82 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

Improving authentication delay is a key issue for achieving seamless handovers across networks and domains. This paper presents an overview of fast authentication methods when roaming within or across IEEE 802.11 Wireless-LANs. Besides this overview, the paper analyses the applicability of IEEE 802.11f and Seamoby solutions to enable fast authentication for inter-domain handovers. The paper proposes a number of possible changes to these solutions (typically in terms of network architectures a ...

**Keywords:** WLAN, authentication, handover, inter/intra-domain, seamless

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## 1 [Security issues with TCP/IP](#)



Renqi Li, E. A. Unger

June 1995 **ACM SIGAPP Applied Computing Review**, Volume 3 Issue 1

**Publisher:** ACM Press

Full text available: [pdf\(801.12 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

An introduction to network security , basic definitions and aa brief discussion of the architecture of TCP/IP as well as the Open System Interconnection(OSI) Reference Model open the paper. The relationship between TCP/IP and of some OSI layers is described. An indepth look is provided to the major protocols in TCP/IP suite and the security features and problems in this suite of protocols. The secuti problems are discussed in the context ofthe protocol services.

**Keywords:** TCP/IP, Unix, network security, security

## 2 [Half layers: NUTSS: a SIP-based approach to UDP and TCP network connectivity](#)



Saikat Guha, Yutaka Takeda, Paul Francis

August 2004 **Proceedings of the ACM SIGCOMM workshop on Future directions in network architecture FDNA '04**

**Publisher:** ACM Press

Full text available: [pdf\(128.36 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citing](#), [index terms](#), [review](#)

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**Keywords:** IPv6 transition, NAT traversal, NUTSS, STUNT

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